Outcomes

1. The Technology Concentration will maintain a curriculum which meets or exceeds the entrance requirements of appropriate engineering, engineering science, or science Masters programs.

   **Start:** 7/1/2015  
   **End:** 6/30/2016  
   **Providing Department:** BS Aerospace - Technology Concentration  
   **Person(s) Responsible:** Nate Callender  
   **Outcome Type:** Program Outcome  

   **Measure 1**
   Percentage of students who applied to graduate programs that are accepted. Goal: 100% acceptance for students recommended by the Technology Concentration Coordinator External program assessments of the curriculum.

   **What changes have you made based on prior results of measure 1**
   All Aerospace Technology students continue to be advised toward a double major in either Physics or Mathematics in order to better prepare them for graduate education.

   **Analysis of Results for Measure 1**
   100% of the Technology students recommended by the Technology Concentration Coordinator were accepted into graduate programs.

   **Future actions based on results from measure 1**
   Aerospace Technology students will continue to be advised toward a double major in either Physics or Mathematics in order to better prepare them for graduate education.

2. Students will demonstrate the ability to use mathematics, physics, and engineering concepts to evaluate flight vehicle aerodynamic characteristics and performance.

   **Start:** 7/1/2015  
   **End:** 6/30/2016  
   **Providing Department:** BS Aerospace - Technology Concentration  
   **Person(s) Responsible:** Nate Callender  
   **Outcome Type:** Program Outcome  

   **Measure 1**
   Successful use of mathematics, physical principles, and engineering concepts to calculate airplane aerodynamic characteristics and performance from flight test data in AERO 3440, Fundamentals of Aerodynamics, and AERO 4440, Aircraft Performance.

   **What changes have you made based on prior results of measure 1**
   No changes were made.
Analysis of Results for Measure 1
75% of Aerospace Technology students successfully completed AERO 3440. 75% of Aerospace Technology students successfully completed AERO 4440.

Future actions based on results from measure 1
The professor will remind the students that all graded components of the course are important. Performance on tests will not guarantee successful completion of the course. Students must complete all homework assignments and the research paper.

3. Students will demonstrate the ability to communicate effectively using appropriate technical language regarding aerodynamics and flight vehicle performance.
   
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   **Measure 1**
   Successful completion of flight test reports in AERO 3440 and AERO 4440 Goal: 80% completion of flight test reports in AERO 3440 and 4440.

   **What changes have you made based on prior results of measure 1**
   Assignments were given prior to the report; however, more were needed.

   **Analysis of Results for Measure 1**
   50% of Aerospace Technology students successfully completed the flight test report in AERO 3440. 75% of Aerospace Technology students successfully completed the flight test report in AERO 4440.

   **Future actions based on results from measure 1**
   Further APA assignments are needed to prepare students for the report. We will make an effort to complete flight testing earlier in the semester to allow more time for calculation and report writing.